



# **AUSTRALIAN WEATHERWATCH**

Meteorological Consultants

Crawfords Freightlines Pty Ltd

Werris Creek 2023-24

Annual Environment Return

Condition R5.2 of EPL 21253

Air Quality Verification Report

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# 1. Introduction

## 1.1 Environment Protection License

Crawfords Freightlines Pty Ltd is the licensee for Environment Protection Licence (EPL) No. 21253. The Scheduled Activity of 'Wood Preservation' (> 30,000 m<sup>3</sup> annual processing capacity) occurs at the Crawfords Freightlines Intermodal Terminal, 127 Railway Parade, Werris Creek NSW 2341.

The Reporting Conditions of EPL 21253 requires the licensee to complete and supply to the EPA an Annual Return, inclusive of an Air Quality Verification Report (Condition R5.2); this report. The Anniversary Date of the license is 9 April. Lodgement of the Annual Report is within 60 days of the Anniversary Date.

## 1.2 Purpose of this report

Condition R5.2 of EPL 21253 states:

"An Air Quality Verification Report must be submitted to the EPA with the Annual Return for this Environment Protection Licence. The report must:

- a. Include fumigation records for each fumigation event undertaken during the reporting period. The records must include, but not necessarily be limited to:
  1. Date and time of each fumigation event
  2. Number of containers fumigated for each event
  3. Mass of fumigant applied to each container, including any additional fumigant required to be dosed to achieve completed fumigation event(s)
  4. Fumigant concentrations measured within the containers at the beginning, during and prior to commencement of ventilation of each fumigation
- b. Detail meteorological data collected from monitoring point 9, being the onsite meteorological station, for each fumigation (sic) ventilation.
- c. Using the information in (a) and (b), demonstrate that the container ventilation management regime ensures compliance with the project adopted methyl bromide threshold (considering the EPA's published impact assessment criteria) at or beyond the premises boundary.
- d. Use modelling conducted in accordance with the Approved Methods for Modelling and Assessment of Air Pollutants in NSW, if modelling is needed to confirm compliance with the adopted threshold."

This report addresses the items of Condition R5.2. Subclauses (a) and (b) by themselves are unable to satisfy subclause (c). It was agreed at a meeting with EPA in Tamworth on 7 December 2021 that any individual containers opened below the threshold concentration of



20 g/m<sup>3</sup> (condition L5.4 of EPL 21253)<sup>1</sup> have already been demonstrated, by the Air Quality Management Plan, to result in methyl bromide compliance at the site boundaries. Therefore, subclause (c) for most fumigation events (individual container opening) has previously been demonstrated by the Air Quality Verification Report (GHD 12526556-41707, 21 December 2020). Subclause (d) is used for when any individual container 'fumigation event' involves an end-point concentration above the condition L5.4 threshold - residual methyl bromide concentration less than or equal to 20 g/m<sup>3</sup>.

### 1.3 Scope and limitations

This report has been prepared by Australian Weatherwatch for Crawfords Freightlines Pty Ltd and may only be used and relied on by Crawfords Freightlines Pty Ltd for the purpose agreed between GHD and Crawfords Freightlines Pty Ltd as set out in Section 1.2 of this report.

Australian Weatherwatch otherwise disclaims responsibility to any person other than Crawfords Freightlines Pty Ltd arising in connection with this report. Australian Weatherwatch also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by Australian Weatherwatch in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. Australian Weatherwatch has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by Australian Weatherwatch described in this report (refer to Section 1.4 of this report). Australian Weatherwatch disclaims liability arising from any of the assumptions being incorrect.

Australian Weatherwatch has prepared this report on the basis of information provided by Crawfords Freightlines Pty Ltd and others who provided information to Australian Weatherwatch (including Government authorities), which Australian Weatherwatch has not independently verified or checked beyond the agreed scope of work. Australian Weatherwatch does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

Australian Weatherwatch has not been involved in the preparation of the EPL Annual Return and has had no contribution to, or review of the EPL Annual Return other than in the Air

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<sup>1</sup> The original modelling was able to demonstrate that up to 20 containers 'released' during one hour with an average concentration of 21.7 g/m<sup>3</sup> meets condition R5.2(c).



Quality Verification Report. GHD shall not be liable to any person for any error in, omission from, or false or misleading statement in, any other part of the EPL Annual Return.

## **1.4 Assumptions**

Monitoring conducted for the Crawfords Freightlines Intermodal Terminal is consistent with the Air Quality Management Plan (AQMP) (GHD, revised October 2021 and updated April 2024) developed for site operations.

It is also assumed that the site monitoring is conducted consistent with the monitoring requirements of EPL 21253. In particular, the Monitoring and Recording Conditions M1, M2, M3 and M4 of the EPL.

## **2. Records for each fumigation event**

### **2.1 Introduction**

Operations commenced at Crawfords Freightlines Intermodal Terminal during April 2020 with commissioning fumigation events occurring. As log shipments were diverted from Newcastle (the Crawfords facility at Sandgate) to Werris Creek, the frequency of fumigations increased leading into the 2020/21 financial year. Timber fumigation events dwindled during the 2021 to 2022 period with grain fumigation taking over. Only 20 containers of timber were fumigated from mid-September 2022 to April 2023. Over 250 containers of timber were returned to the international market during April, May and June of 2023 (then the trade dried up for the rest of the calendar year).

Due to both quarantine and EPL requirements, each fumigation event requires records to be kept regarding fumigation. A quarantine clearance certificate is produced for the logs exposed to fumigation and includes the recording of the container identification and more. A sample of the relevant event details is provided in Figure 1.

Australian Weatherwatch has inspected the records for fumigation event reporting to verify that Condition R5.2 is being complied with.

Each fumigation event record has:

- Fumigation Clearance Certificate
- Crawfords Pesticide Application Record
- GFS-CFL Environmental Venting Procedure Record

Continuously recorded meteorological data (15-minute averages) is used at each fumigation event (see Section 3) to ascertain the nearest downwind boundary and the opening time separation of each event (a function of wind speed and direction of nearest boundary).



All records are kept on-site in accordance with condition M1 Monitoring records of EPL 21253. These are available for inspection by EPA while a summary is provided in this report.

**TREATMENT DETAILS**

Date/Time Fumigation commenced: 20/1/24 8:30 Date/Time Fumigation completed: 22/1/24 12:01

Place of Fumigation: Crawfords Freightlines 41 Downton Street, Werris Creek NSW 2341

Prescribed dose rate (g/m<sup>3</sup>): 48g/m<sup>3</sup> @ 21°C Applied dose rate (g/m<sup>3</sup>): 48g/m<sup>3</sup>

Exposure period (hours): 24 Forecasted Minimum Temperature (°C): 17.2

**HOW WAS THE FUMIGATION CONDUCTED?**

	Un-sheeted Container	Silo
X		

Container Number	Dose (KG)	Final TLV
CAAU5694325	3.7	1
HASU4152306	3.7	3
HASU4419727	3.7	4
HASU4947196	3.7	2
MIEU2013720	3.7	1
MRKU4070838	3.7	3
MRKU5223510	3.7	1
MRKU5812058	3.7	1
MRSU3636862	3.7	1
MRSU3743080	3.7	3

Container Number	Dose (KG)	Final TLV
MSKU0324290	3.7	2
MSKU0443452	3.7	2
MSKU8687331	3.7	2
MSKU8943032	3.7	3
MSKU8958916	3.7	0
TCKU6838882	3.7	0
TCKU6840832	3.7	2
TGHU6665356	3.7	3
TGHU8143134	3.7	3
TLLU5930109	3.7	2

Figure 1 Example Fumigation Clearance Certificate detail

## 2.2 2023 – 2024 fumigation events

Details of the fumigation events from the Anniversary Date of 9 April between 2023 to 2024 are presented in Table 1. This includes containers involving grain as well as timber.

Depending on the logistics of the number of containers to be fumigated and then vented at least 24 hours later, the daily fumigation ‘event’ may occur across several hours. For example, a maximum of 20 containers can only be vented in any given hour. By default, the dosage rate at the time the containers are ‘gassed’ is the initial (beginning) fumigant concentration. An intermediate container concentration is most often recorded at 16 hours (a China import requirement) – mainly for quarantine clearance certificate purposes where a minimum in-container concentration (21.3 g/m<sup>3</sup> from an initial dose for timber of 64 g/m<sup>3</sup>) is required. An end-time concentration is also recorded (top, middle and bottom) where required (timber only) for quarantine clearance certificate purposes.

Table 1 records that 50 event days (lower than the 80 in the previous year and much lower than the 156 in the 2020-21 year) occurred during the reporting period of 2023/24. Only 22 of these days involved timber (the scheduled activity of ‘Wood Preservation’ in EPL 21253) due to the trade dispute between Australia and China. For most of the reporting year, timber fumigation was replaced with grain fumigation only – a seasonal and international market adjustment. Grain containers only were fumigated on a further 28 days. A total of 551 containers (1248 previous year and well short of the annual peak) were processed with a measured event opening with residual MeBr concentration. An average day has 11 containers processed with a range of between one and 40 (21 April 2023).



The dosage rate is a target value achieved by weighing a set amount into the sealed container. To achieve a dosage rate of 64 g/m<sup>3</sup> for timber, 2.5 kg of MeBr is required. Differing, and sometimes higher initial dosage is required for grain to achieve the same end point with concentrations after 24 hours of less than 21.3 g/m<sup>3</sup>. The pre-venting concentration is the average of bottom, middle and top concentrations (timber only) as the concentration decreases further after a variable time before taking the final measurement and 'cracking' the container open. The Air Quality Management Plan requires that if the end concentration is not below the target concentration of less than or equal to 20 g/m<sup>3</sup>, then the container is not opened.

The start time for ventilation is always two hours after sunrise with most fumigation days starting between the hours of 8:00 am and noon. The latest time of starting fumigation was 4:00 pm – well within the allowed time of 6:00 pm and two hours before sunset.

*Table 1 Fumigation event days*

Date	Dosage rate (g/m <sup>3</sup> )	Start time	End time	Containers	Product
13/04/2023	48	8:30	9:00	11	CottonSeed
14/04/2023	48	8:35	8:44	4	CottonSeed
15/04/2023	48	10:00	10:54	17 2	CottonSeed Sorghum
17/04/2023	48	8:30	8:48	7	CottonSeed
18/04/2023	48	13:18	14:36	15 1	Timber CottonSeed
19/04/2023	48	8:20	10:21	10 10	Timber CottonSeed
21/04/2023	48	14:00	16:00	20 20	Timber CottonSeed
22/04/2023	48	9:00	9:36	10	CottonSeed
25/04/2023	48	9:30	9:36	3	CottonSeed
28/04/2023	48	8:45	9:48	15 2	Timber Mungbean
2/05/2023	48	11:45	13:00	20 2	Timber CottonSeed
3/05/2023	48	11:50	11:56	3	CottonSeed
6/05/2023	48	9:30	9:54	5	CottonSeed
9/05/2023	48	13:00	14:06	20 1	Timber CottonSeed



				2	Mungbean
10/05/2023	48	11:30	12:36	10	Timber
12/05/2023	48	13:00	14:09	20	Timber
17/05/2023	48	12:00	12:45	14 2	Timber Mungbean
18/05/2023	48	9:18	9:48	11	Timber
19/05/2023	48	11:48	13:00	10 1 1	Timber CottonSeed Mungbean
20/05/2023	48	9:01	9:01	1	CottonSeed
24/05/2023	48	10:30	12:45	19	Timber
26/05/2023	48	10:30	12:06	20 1	Timber Mungbean
31/5/2023	48	10:05	10:05	1	Timber
3/06/2023	48	10:34	11:16	10	Timber
5/06/2023	48	9:00	9:54	10	Mungbean
9/06/2023	48	10:30	10:57	7	Mungbean
16/06/2023	48	11:30	12:54	15	Timber
17/06/2023	48	9:30	10:41	15	Timber
22/06/2023	48	10:00	10:06	3	CottonSeed
26/06/2023	48	9:15	9:33	4	Mungbean
29/06/2023	48	13:00	14:28	22 2	Timber Mungbean
3/07/2023	48	10:48	11:06	4	Mungbean
7/07/2023	48	11:15	11:24	4	Mungbean
8/07/2023	48	9:15	9:15	1	Mungbean
11/07/2023	48	12:18	12:18	1	Mungbean
21/07/2023	48	12:15	14:26	20	CottonSeed
15/08/2023	48	8:45	8:51	2	Mungbean
26/08/2023	48	9:43	9:43	1	Sorghum
12/09/2023	48	13:05	13:08	2	Mungbean
25/09/2023	48	8:10	9:48	13	Chickpeas
7/10/2023	48	10:30	11:00	10	Wheat





				1	Mungbean
23/10/2023	48	8:33	8:33	1	Sorghum
26/10/2023	48	11:06	11:06	1	Sorghum
19/01/2024	48	9:00	9:57	20	Timber
21/01/2024	48	10:00	10:57	20	Timber
26/01/2024	48	8:30	8:36	2	Sorghum
6/02/2024	56	8:30	10:24	20	Timber
9/02/2024	48	11:30	12:03	12	Chick Peas
6/03/2024	48	7:30	7:33	2	Sorghum
5/04/2024	56	16:00	16:27	10	Timber

Data on individual fumigation events (each container opening – 551 instances) is provided in Section 7.



### 3. Meteorological Data

#### 3.1 Weather conditions sub-set

The Air Quality Management Plan (AQMP) (GHD, 2021 and updates) for site operations concerning venting defines a wind threshold where releasing methyl bromide must be slowed from the obtainable one container opening per three minutes. Screening modelling according to the Approved Methods sets the decision tree threshold at 7 km/h – as seen in Figure 2.

The staggering of container opening as a function of wind conditions was not fully adopted by the NSW Environment Protection Authority. A more conservative Condition was inserted into EPL No. 21253 with the container staggering options defined in Table 3.1. It had been communicated that (Lindsay Fulloon email: On Behalf of EPA RSD Armidale Mailbox - Sent: Wednesday, 18 December 2019 2:55 PM):

- “The EPA’s intention is to either remove this condition, or amend it once the AQMP has been amended ...and/or once you have demonstrated that the site can be operated in such a way to mitigate any potential risk to surrounding receptors.”

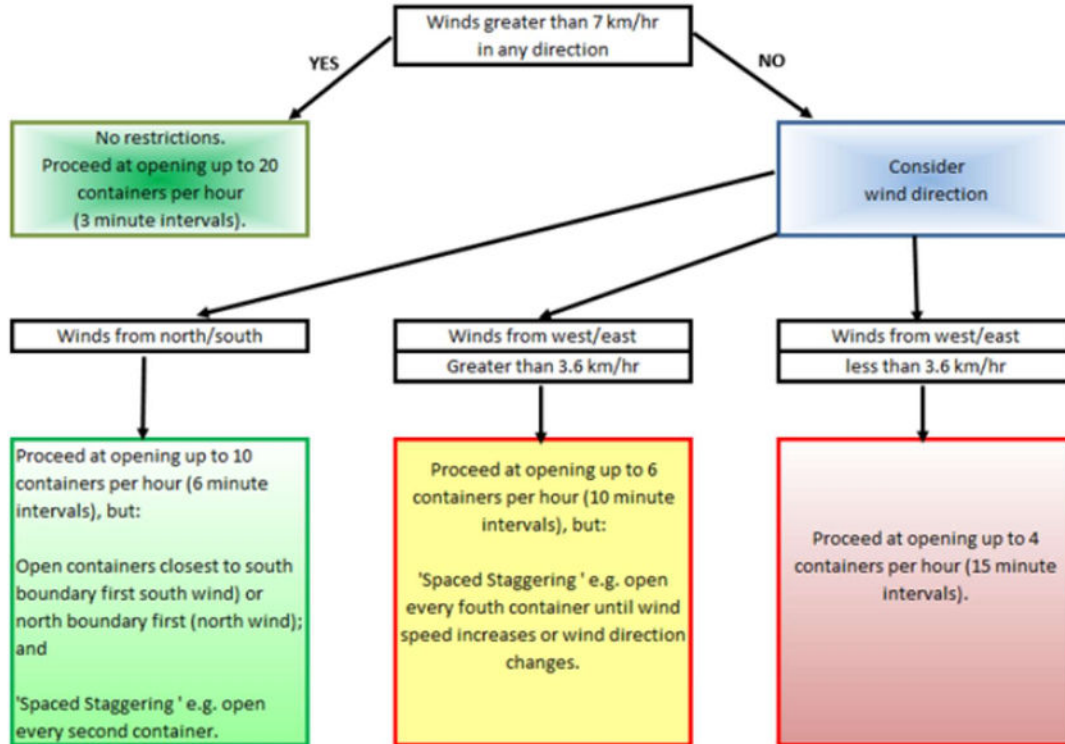


Figure 2 Fumigation decision tree for container opening



Table 2 EPL No. 21253 decision tree condition

Maximum number of containers that can be opened for ventilation per hour				
	Wind direction from true north (15-minute average)			
Wind speed (m/s) (15-minute average)	North	East	South	West
0.5 - 1	10	2	10	2
1 - 2	10	4	10	4
2 - 3	20	10	20	10
3 or above	20	20	20	20

The 50 event days experienced meteorological conditions that are essentially randomly selected from a full year of daytime non-stable weather (includes daytime unstable and neutral only) and is highly variable. Due to the Standard Operating Procedure (SOP), of checking each container before fumigation, there is no instance of a container opening in any hour exceeding 20 g/m<sup>3</sup>. Therefore, no venting conditions, with associated prevailing meteorology, occur for the fumigation event hours that require “modelling ... to confirm compliance with the adopted threshold” (EPL 21253 Condition R5.2 (d)). The full dataset of meteorological data is kept on site in accordance with condition M1 Monitoring records of EPL 21253. These 15-minute averaged data are available for inspection by EPA.

## 4. Container ventilation management regime

The Air Quality Management Plan (AQMP) for the site assumes an average mass emission rate from a maximum of 20 containers per hour. The decision tree of Figure 2 ensures that less containers are opened in an hour when weather conditions are not able to decrease concentrations to compliance levels. Implicit in the management regime is that containers that are under the EPA specified release concentration (20 g/m<sup>3</sup>) will not result in excessive MeBr concentration crossing the site boundaries.

From Section 3, individual container opening events are always below the critical threshold of 20 g/m<sup>3</sup> and the model verification assumption of 21.3 g/m<sup>3</sup>. Moreover, for the 2023-24 year, the average concentration of opened containers was 18.6 g/m<sup>3</sup> (data from Table 3 in section 7). When below the emission threshold concentration, the AQMP ensures compliance with the project adopted methyl bromide threshold (taken from the Approved Methods).



## 5. Approved Methods modelling

For modelling to confirm compliance with the adopted Approved Methods threshold, modelling was conducted in accordance with the Approved Methods for Modelling and Assessment of Air Pollutants in NSW (EPL Condition R5.2(d)). The modelling follows the AQMP where container opening is staggered according to the prevailing dispersion meteorology and distance to the nearest site boundary. Moreover, site boundary monitoring (until December 2021) was a real-time check that plumes of MeBr are not measured crossing the boundary. By modelled and measured impacts being below the threshold target it is demonstrated that the site can be operated in such a way to mitigate any potential risk to surrounding receptors.



## 6. Conclusion

Section 2.2 and Section 7 provides details on each daily fumigation event that occurred during the 12 months to the Anniversary Date of 9 April 2024. This involved 50 event days with venting of methyl bromide (after containers 'dosed' at least 24 hours previously). Due to market conditions, these event days only involve 22 days where containers with timber are involved. These data were extracted from the fumigation records that are compiled for each fumigation event and these are a necessary requirement of the quarantine clearance certificate requirements for exporting of timber and grain to overseas markets.

The container ventilation management regime that is documented in the Air Quality Management Plan (AQMP) ensures compliance with the project adopted methyl bromide threshold. Moreover, downwind boundary conditions are measured when fumigation is occurring – this is independent of the data of Section 2 and Section 3, albeit the Standard Operating Procedure (SOP) is reactive to weather (wind) conditions. There is no need to confirm compliance with condition R5.2(d) as operating procedures ensure that no container has a residual concentration above  $20 \mu\text{g}/\text{m}^3$  at time of opening (actual real-world experience is that the average concentration at time of release to the atmosphere is  $18.6 \text{ g}/\text{m}^3$ ).



## 7. Individual fumigation events

Fumigation records for each container opening (551 instances) are provided in the table below.

*Table 3 Fumigation events (time of opening and retention measurement)*

Date	Initial Dosage (g/m <sup>3</sup> )	Container Opening	Prior to venting (g/m <sup>3</sup> )
13-4-2023	48	08:30	17.5
	48	08:33	17.7
	48	08:36	18.1
	48	08:39	18.5
	48	08:42	18.8
	48	08:45	19.0
	48	08:48	19.3
	48	08:51	19.5
	48	08:54	19.7
	48	08:57	18.1
	48	09:00	17.7
14-4-2023	48	08:35	18.3
	48	08:38	17.1
	48	08:41	19.2
	48	08:44	17.8
15-4-2023	48	10:00	18.3
	48	10:03	19.1
	48	10:06	18.6
	48	10:09	17.8
	48	10:12	19.4
	48	10:15	18.1
	48	10:18	17.9
	48	10:21	18.4
48	10:24	18.3	



	48	10:27	18.6
	48	10:30	19.2
	48	10:33	19.1
	48	10:36	17.6
	48	10:39	17.8
	48	10:42	18.6
	48	10:45	19.8
	48	10:48	17.9
	48	10:51	18.3
	48	10:54	18.8
17-4-2023	48	08:30	16.3
	48	08:33	17.8
	48	08:36	16.4
	48	08:39	15.9
	48	08:42	18.1
	48	08:45	16.8
	48	08:48	16.1
18-4-2023	48	13:18	19.1
	48	13:24	18.2
	48	13:30	19.3
	48	13:33	17.4
	48	13:36	19.3
	48	13:39	18.4
	48	13:42	19.1
	48	13:45	18.2
	48	13:48	19.2
	48	13:51	18.1
	48	13:54	19.4
	48	13:57	18.2
	48	14:00	19.1
	48	14:30	19.4
	48	14:33	18.1



19-4-2023

48	14:36	18.3
48	08:20	18.4
48	08:26	19.0
48	08:32	19.2
48	08:38	19.5
48	08:44	19.2
48	08:50	19.1
48	08:56	19.3
48	09:02	18.9
48	09:15	19.3
48	09:21	18.9
48	09:27	18.3
48	09:33	17.4
48	09:39	19.1
48	09:45	19.2
48	09:51	18.3
48	09:57	19.3
48	10:03	19.2
48	10:09	19.2
48	10:15	18.1
48	10:21	17.2
21-4-2023	14:00	18.7
48	14:03	19.2
48	14:06	18.5
48	14:09	19.5
48	14:12	19.8
48	14:15	18.5
48	14:18	19.2
48	14:21	19.4
48	14:24	19.8
48	14:27	18.9
48	14:30	18.7





48	14:33	19.2	
48	14:36	18.4	
48	14:42	19.4	
48	14:45	19.5	
48	14:48	19.9	
48	14:51	19.2	
48	14:54	18.2	
48	14:57	18.9	
48	15:00	18.7	
48	15:03	19.1	
48	15:06	18.3	
48	15:09	19.2	
48	15:12	18.1	
48	15:15	19.3	
48	15:18	19.2	
48	15:21	19.1	
48	15:24	19.3	
48	15:27	19.2	
48	15:30	19.1	
48	15:33	19.0	
48	15:36	18.4	
48	15:39	18.3	
48	15:42	18.1	
48	15:45	19.2	
48	15:48	19.1	
48	15:51	19.2	
48	15:54	19.3	
48	15:57	19.1	
48	16:00	18.3	
22-4-2023	48	09:00	19.2
48	09:06	19.9	
48	09:12	18.1	



	48	09:18	17.6
	48	09:21	19.4
	48	09:24	18.8
	48	09:27	19.5
	48	09:30	18.2
	48	09:33	18.7
	48	09:36	18.8
25-4-2023	48	09:30	18.9
	48	09:33	19.3
	48	09:36	18.5
28-4-2023	48	08:45	19.1
	48	08:51	18.2
	48	08:57	17.4
	48	09:03	17.3
	48	09:09	18.1
	48	09:15	19.3
	48	09:18	19.1
	48	09:21	19.1
	48	09:24	17.4
	48	09:27	17.1
	48	09:30	19.1
	48	09:33	19.4
	48	09:36	17.4
	48	09:39	19.3
	48	09:42	19.4
	48	09:45	18.7
	48	09:48	17.6
2-5-2023	48	11:45	18.6
	48	11:48	19.2
	48	11:51	17.3
	48	11:54	18.3
	48	11:57	19.5



	48	12:00	17.4
	48	12:06	18.1
	48	12:12	19.3
	48	12:15	19.1
	48	12:18	19.2
	48	12:21	18.3
	48	12:24	17.4
	48	12:27	19.1
	48	12:30	18.4
	48	12:36	19.3
	48	12:39	17.4
	48	12:45	17.3
	48	12:48	19.2
	48	12:51	18.1
	48	12:54	17.4
	48	12:57	19.1
	48	13:00	19.4
3-5-2023	48	11:50	18.4
	48	11:53	19.3
	48	11:56	19.9
6-5-2023	48	09:30	18.1
	48	09:36	18.4
	48	09:42	18.6
	48	09:48	19.1
	48	09:54	19.4
9-5-2023	48	13:00	19.3
	48	13:03	19.4
	48	13:06	18.2
	48	13:09	19.2
	48	13:12	19.1
	48	13:15	18.1
	48	13:18	17.6



10-5-2023

12-5-2023

48	13:21	19.3
48	13:24	18.4
48	13:27	19.2
48	13:30	19.1
48	13:33	17.2
48	13:36	17.1
48	13:39	19.3
48	13:42	19.2
48	13:45	19.1
48	13:48	19.4
48	13:51	19.2
48	13:54	18.4
48	13:57	18.4
48	14:00	16.4
48	14:03	18.4
48	14:06	19.1
48	11:30	19.1
48	11:36	19.4
48	11:42	18.3
48	11:48	19.1
48	12:00	18.4
48	12:12	17.1
48	12:18	18.3
48	12:24	19.2
48	12:30	17.3
48	12:36	17.1
48	13:00	18.2
48	13:03	18.1
48	13:06	18.4
48	13:09	18.2
48	13:12	19.1
48	13:15	19.4



	48	13:18	17.2
	48	13:21	19.3
	48	13:24	18.4
	48	13:27	18.4
	48	13:30	18.2
	48	13:33	19.2
	48	13:36	19.1
	48	13:39	19.4
	48	13:42	18.3
	48	13:45	19.1
	48	13:48	19.3
	48	13:57	19.2
	48	14:03	19.3
	48	14:09	19.4
17-5-2023	48	12:00	17.6
	48	12:03	19.4
	48	12:06	19.1
	48	12:09	18.4
	48	12:12	19.2
	48	12:15	19.3
	48	12:18	18.1
	48	12:21	18.2
	48	12:24	18.4
	48	12:27	19.3
	48	12:30	17.4
	48	12:33	16.4
	48	12:36	19.1
	48	12:39	19.3
	48	12:42	17.4
	48	12:45	18.3
18-5-2023	48	09:18	18.1
	48	09:21	19.4



	48	09:24	19.1
	48	09:27	19.1
	48	09:30	19.3
	48	09:33	19.2
	48	09:36	19.4
	48	09:39	19.3
	48	09:42	19.2
	48	09:45	18.4
	48	09:48	18.1
19-5-2023	48	11:48	19.4
	48	12:00	18.7
	48	12:06	19.1
	48	12:12	19.2
	48	12:18	19.1
	48	12:24	18.4
	48	12:30	19.3
	48	12:36	18.4
	48	12:42	19.1
	48	12:48	19.3
	48	12:54	19.3
	48	13:00	19.1
20-5-2023	48	09:01	19.3
24-5-2023	48	10:30	18.4
	48	10:45	18.1
	48	11:00	19.3
	48	11:15	19.2
	48	11:21	18.4
	48	11:27	19.2
	48	11:33	19.3
	48	11:39	18.4
	48	11:45	18.3
	48	11:51	18.4



	48	11:57	19.0
	48	12:03	18.4
	48	12:27	17.4
	48	12:30	19.3
	48	12:33	18.2
	48	12:36	16.0
	48	12:39	18.4
	48	12:42	18.3
	48	12:45	18.3
26-5-2023	48	10:30	18.4
	48	10:36	19.7
	48	10:42	19.2
	48	10:48	19.1
	48	11:18	17.4
	48	11:21	19.3
	48	11:24	19.2
	48	11:27	18.1
	48	11:30	19.2
	48	11:33	19.3
	48	11:36	19.4
	48	11:39	18.4
	48	11:42	19.2
	48	11:45	19.2
	48	11:48	19.3
	48	11:51	19.1
	48	11:54	19.4
	48	11:57	19.3
	48	12:00	19.1
	48	12:03	18.4
	48	12:06	19.3
31-5-2023	48	10:05	18.3
3-6-2023	48	10:34	18.1



	48	10:37	18.4
	48	10:40	18.2
	48	10:43	19.3
	48	10:46	19.1
	48	10:49	18.3
	48	10:52	19.2
	48	10:55	19.4
	48	10:58	19.2
	48	11:01	19.1
	48	11:04	19.2
	48	11:07	19.2
	48	11:10	19.9
	48	11:13	19.4
	48	11:16	19.6
5-6-2023	48	09:00	18.3
	48	09:06	19.4
	48	09:12	18.7
	48	09:18	19.1
	48	09:24	17.6
	48	09:30	18.8
	48	09:36	18.1
	48	09:42	18.5
	48	09:48	19.2
	48	09:54	19.3
9-6-2023	48	10:30	18.3
	48	10:36	19.7
	48	10:42	18.9
	48	10:48	18.5
	48	10:51	17.8
	48	10:54	19.2
	48	10:57	18.4
16-6-2023	48	11:30	17.4





	48	11:36	19.2
	48	11:42	19.8
	48	11:48	18.2
	48	11:54	19.4
	48	12:00	19.1
	48	12:06	19.3
	48	12:12	18.2
	48	12:18	19.1
	48	12:24	19.3
	48	12:30	19.2
	48	12:36	17.4
	48	12:42	19.1
	48	12:48	19.1
	48	12:54	19.3
17-6-2023	48	09:30	19.1
	48	09:36	19.4
	48	09:42	17.1
	48	09:48	17.3
	48	09:54	19.4
	48	10:00	18.3
	48	10:06	19.0
	48	10:20	19.2
	48	10:23	19.1
	48	10:26	19.3
	48	10:29	19.2
	48	10:32	19.3
	48	10:35	17.4
	48	10:38	18.3
	48	10:41	18.4
22-6-2023	48	10:00	18.7
	48	10:03	19.2
	48	10:06	18.4



26-6-2023	48	09:15	18.4
	48	09:21	17.8
	48	09:27	17.4
	48	09:33	16.9
29-6-2023	48	13:00	17.1
	48	13:06	17.4
	48	13:12	18.3
	48	13:18	19.2
	48	13:31	18.8
	48	13:34	19.7
	48	13:37	18.5
	48	13:40	17.8
	48	13:43	17.5
	48	13:46	18.4
	48	13:49	17.9
	48	13:52	18.1
	48	13:55	18.8
	48	13:58	18.9
	48	14:01	19.3
	48	14:04	18.1
	48	14:07	16.1
	48	14:10	19.2
	48	14:13	19.8
	48	14:16	19.4
3-7-2023	48	14:19	18.2
	48	14:22	18.6
	48	14:25	17.3
	48	14:28	18.1
3-7-2023	48	10:48	17.6
	48	10:54	16.4
	48	11:00	18.2
	48	11:06	17.4



7-7-2023	48	11:15	19.7
	48	11:18	17.8
	48	11:21	18.4
	48	11:24	19.3
8-7-2023	48	09:15	16.8
11-7-2023	48	12:18	18.9
21-7-2023	48	12:15	17.9
	48	12:21	18.6
	48	12:27	19.4
	48	12:33	19.1
	48	12:39	18.4
	48	12:45	18.9
	48	12:51	17.9
	48	12:57	18.2
	48	13:03	16.9
	48	13:17	18.4
	48	13:23	18.2
	48	13:29	18.8
	48	13:35	19.7
	48	13:50	19.2
	48	13:56	18.8
	48	14:02	17.6
	48	14:08	17.9
	48	14:14	18.9
	48	14:20	19.3
	48	14:26	19.4
15-8-2023	48	08:45	18.7
	48	08:51	19.4
26-8-2023	48	09:43	19.4
12-9-2023	48	13:05	19.2
	48	13:08	18.7
25-9-2023	48	08:10	16.8



	48	08:45	17.2
	48	09:00	18.4
	48	09:15	18.1
	48	09:18	16.9
	48	09:21	17.3
	48	09:24	17.8
	48	09:27	17.1
	48	09:30	18.3
	48	09:36	16.4
	48	09:42	18.5
	48	09:45	17.7
	48	09:48	18.3
7-10-2023	48	10:30	19.3
	48	10:33	18.7
	48	10:36	17.7
	48	10:39	18.3
	48	10:42	18.4
	48	10:45	18.9
	48	10:48	19.3
	48	10:51	17.8
	48	10:54	18.1
	48	10:57	18.4
	48	11:00	17.3
23-10-2023	48	08:33	19.2
26-10-2023	48	11:06	18.4
19-1-2024	48	09:00	18.1
	48	09:03	16.4
	48	09:06	19.2
	48	09:09	17.3
	48	09:12	18.1
	48	09:15	18.2
	48	09:18	19.3



21-1-2024

48	09:21	18.4
48	09:24	18.1
48	09:27	19.2
48	09:30	18.4
48	09:33	19.3
48	09:36	18.1
48	09:39	19.3
48	09:42	18.4
48	09:45	17.1
48	09:48	19.2
48	09:51	19.3
48	09:54	17.1
48	09:57	19.1
48	10:00	19.1
48	10:03	19.2
48	10:06	18.4
48	10:09	18.1
48	10:12	18.1
48	10:15	18.3
48	10:18	18.0
48	10:21	18.1
48	10:24	19.2
48	10:27	17.4
48	10:30	17.3
48	10:33	19.1
48	10:36	19.4
48	10:39	19.3
48	10:42	19.3
48	10:45	18.4
48	10:48	19.3
48	10:51	19.1
48	10:54	18.2



	48	10:57	19.0
26-1-2024	48	08:30	<20
	48	08:36	<20
6-2-2024	56	08:30	18.0
	56	08:36	17.8
	56	08:42	18.1
	56	08:48	19.5
	56	08:54	19.1
	56	09:00	18.9
	56	09:06	17.7
	56	09:12	17.9
	56	09:18	18.0
	56	09:24	18.3
	56	09:30	18.1
	56	09:36	19.4
	56	09:42	19.0
	56	09:48	18.4
	56	09:54	19.0
	56	10:00	19.1
	56	10:06	18.7
	56	10:12	18.5
	56	10:18	18.2
	56	10:24	19.3
9-2-2024	48	11:30	17.5
	48	11:33	17.8
	48	11:36	18.1
	48	11:39	19.5
	48	11:42	19.1
	48	11:45	18.6
	48	11:48	19.4
	48	11:51	19.6
	48	11:54	19.8



	48	11:57	20.0
	48	12:00	19.7
	48	12:03	19.4
6-3-2024	48	07:30	17.7
	48	07:33	18.1
5-4-2024	56	16:00	18.4
	56	16:03	19.6
	56	16:06	19.8
	56	16:09	19.4
	56	16:12	19.6
	56	16:15	19.0
	56	16:18	19.2
	56	16:21	19.4
	56	16:24	19.0
	56	16:27	18.2